

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

PATENT
Attorney Docket No.: 16625-001110

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450



On June 4, 2004

TOWNSEND and TOWNSEND and CREW LLP

By:

Sara B. McPeak

RECEIVED

JUN 14 2004

Technology Center 2600

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Jerome D. Toporek et al.

Application No.: 09/493,338

Filed: January 28, 2000

For: INTERNET OVER SATELLITE
APPARATUS

Examiner: Justin M. Philpott

Art Unit: 2665

FIFTH SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT UNDER 37
CFR §1.97 and §1.98

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are enclosed.

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no

06/09/2004 SSANDARA 00000005 201430 09493338

01 FC:1806 180.00 DA

representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance.

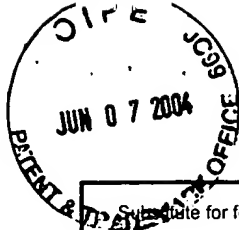
Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read "R. Barrett", is written over the typed name.

Roger T. Barrett
Reg. No. 41,599

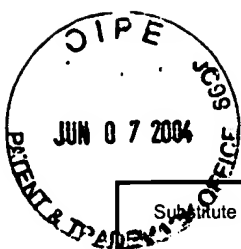
TOWNSEND and TOWNSEND and CREW LLP
Two Embarcadero Center, Eighth Floor
San Francisco, California 94111-3834
Tel: 303-571-4000
Fax: 303-571-4321
RTB:sbm



INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	09/493,338
		Filing Date	January 28, 2000
		First Named Inventor	Toporek, Jerome D. et al.
		Art Unit	2665
		Examiner Name	Justin M. Philpott
Sheet 1	of 5	Attorney Docket Number	16625-001110

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-4,018,993	04-19-1977	Nils Herbert Edstrom	
	AB	US-4,135,156	01-16-1979	Royden C. Sanders et al.	
	AC	US-4,599,647	07-08-1986	Ashok K. George et al.	
	AD	US-4,686,698	08-11-1987	E. Neal Tompkins et al.	
	AE	US-4,720,873	01-19-1988	Ricky R. Goodman et al.	
	AF	US-4,724,520	02-09-1988	Peter M. Athanas et al.	
	AG	US-4,736,422	04-05-1988	Arthur G. Mason	
	AH	US-4,775,974	10-04-1988	Kazutomo Kobayashi	
	AI	US-4,777,657	10-11-1988	Norman J. Gillaspie	
	AJ	US-4,793,813	12-27-1988	David L. Bitzer et al.	
	AK	US-4,802,215	01-31-1989	Arthur G. Mason	
	AL	US-4,829,569	05-09-1989	Nigel Seth-Smith et al.	
	AM	US-4,841,526	06-20-1989	Jon C. Wilson et al.	
	AN	US-4,893,307	01-09-1990	Douglas B. McKay et al.	
	AO	US-4,924,303	05-08-1990	Daniel Brandon et al.	
	AP	US-4,933,936	06-12-1990	Robert D. Rasmussen et al.	
	AQ	US-4,940,963	07-10-1990	Jose Gutman et al.	
	AR	US-4,959,872	09-25-1990	Kabushiki Kaisha Toshiba	
	AS	US-5,019,910	05-28-1991	Donald D. Filmer	
	AT	US 5,029,207	07-02-1991	Keith B. Gammie	
	AU	US 5,058,138	10-15-1991	John A. Figura et al.	
	AV	US 5,101,267	03-31-1992	Fernando Morales-Garza	
	AV	US 5,101,478	03-31-1992	Andrew N. Fu et al.	
	AX	US 5,111,504	05-05-1992	James N. Esserman et al.	
	AW	US 5,131,010	07-14-1992	Charles L. Derrenge et al.	
	AX	US 5,157,662	10-20-1992	Katsumi Tadamura et al.	
	AY	US 5,159,592	10-27-1992	Charles E. Perkins	
	AZ	US 5,161,194	11-03-1992	Mikio Ujile	
	BA	US 5,181,200	01-19-1993	Colin G. Harrison	
	BB	US 5,193,151	03-09-1993	Rajendra K. Jain	
	BC	US 5,223,923	06-29-1993	Fernando Morales-Garza	
	BD	US 5,237,610	08-17-1993	Keith Gammie et al.	
	BE	US 5,249,164	09-28-1993	Mark C. Koz	
	BF	US 5,257,369	10-26-1993	Marion D. Skeen et al.	
	BG	US 5,303,042	04-12-1994	Howard S. Lewis et al.	
	BH	US 5,309,351	05-03-1994	Joseph H. McCain et al.	
	BI	US 5,319,705	06-07-1994	Bernard J. Halter et al.	
	BJ	US 5,319,707	06-07-1994	Anthony J. Wasilewski et al.	
	BL	US 5,319,712	06-07-1994	Louis D. Finkelstein et al.	
	BM	US 5,321,542	06-14-1994	Richard F. Freitas et al.	
	BN	US 5,335,276	08-02-1994	E. Earle Thompson et al.	
Examiner Signature			Date Considered		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.
60232065 v1



INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	09/493,338
		Filing Date	January 28, 2000
		First Named Inventor	Toporek, Jerome D. et al.
		Art Unit	2665
		Examiner Name	Justin M. Philpott
Sheet 2	of 5	Attorney Docket Number	16625-001110

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
	BO	US 5,337,044	08-09-1994	David Folger et al.	
	BP	US 5,341,425	08-23-1994	Anthony J. Wasilewski et al.	
	BQ	US 5,347,304	09-13-1994	Eduardo J. Moura et al.	
	BR	US 5,359,367	10-25-1994	Trevor R. Stockill	
	BS	US 5,367,571	11-22-1994	Donald H. Bowen et al.	
	BT	US 5,387,994	02-07-1995	Michael D. McCormack et al.	
	BU	US 5,394,561	02-28-1995	Thomas A. Freeburg	
	BV	US 5,400,401	03-21-1995	Anthony J. Wasilewski et al.	
	BW	US 5,404,505	04-04-1995	Frank H. Levinson	
	BX	US 5,404,583	04-04-1995	Farzin Lalezari et al.	
	BY	US-5,412,660	05-02-1995	David T. Chen et al.	
	BZ	US 5,420,866	05-30-1995	Anthony J. Wasilewski	
	CA	US 5,430,709	07-04-1995	James R. Galloway	
	CB	US 5,452,357	09-19-1995	David Naccache	
	CC	US 5,465,213	11-07-1995	Harvey M. Ross	
	CD	US 5,481,609	01-02-1996	Michael Cohen et al.	
	CE	US 5,506,904	04-09-1996	Wayne S. Sheldrick et al.	
	CF	US 5,526,404	06-11-1996	Robert A. Wiedeman et al.	
	CG	US 5,564,076	10-08-1996	Gerard Auvray	
	CH	US 5,568,554	10-22-1996	Donald E. Eastlake	
	CI	US 5,586,121	12-17-1996	Eduardo J. Moura et al.	
	CJ	US 5,590,200	12-31-1996	Jacob B. Nachman et al.	
	CK	US 5,592,173	01-07-1997	Chung Y. Lau et al.	
	CL	US 5,594,490	01-14-1997	William P. Dawson et al.	
	CM	US 5,594,776	01-14-1997	Paul W. Dent	
	CN	US 5,594,782	01-14-1997	Robert G. Zicker et al.	
	CO	US 5,608,446	03-04-1997	Daniel J. Carr et al.	
	CP	US 5,627,528	05-06-1997	William J. Kuznicki	
	CQ	US 5,634,190	05-27-1997	Robert A. Wiedeman	
	CR	US 5,652,795	07-29-1997	Douglas M. Dillon et al.	
	CS	US 5,659,350	08-19-1997	John S. Hendricks et al.	
	CT	US 5,764,886	06-09-1998	Lin-Juan L. Danielson et al.	
	CU	US 5,995,725	11-30-1999	Douglas M. Dillon	
	CV	US 5,995,726	11-30-1999	Douglas M. Dillon	
	CW	US 6,006,275	12-21-1999	Jose J. Picazo, Jr. et al.	
	CX	US 6,014,378	01-11-2000	Joseph Michael Christie et al.	
	CY	US 6,016,388	01-18-2000	Douglas M. Dillon	
	CZ	US 6,041,356	03-21-2000	Mannan Mohammed	
	DA	US 6,052,718	-04-18-2000	David K. Gifford	
	DB	US 6,067,561	05-23-2000	Douglas Dillon	

RECEIVED

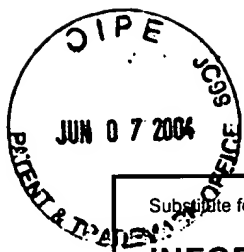
JUN 14 2004

Technology Center 2600

Examiner Signature	Date Considered
-----------------------	--------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (08-03)



Substitute for form 1449B/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/493,338		
		Filing Date	January 28, 2000		
		First Named Inventor	Toporek, Jerome D. et al.		
		Art Unit	2665		
		Examiner Name	Justin M. Philpott		
Sheet	4	of	5	Attorney Docket Number	16625-001110

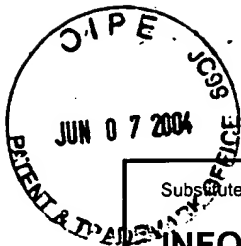
RECEIVED
JUN 14 2004
Technology Center 2600

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/	FA	E. Kass, <i>Satellite Communications</i> , <u>Information Week</u> , May 20, 1985, pgs. 44-47.	
/	FB	Ian Y Chiou et al., <i>Campusnet: A Gateway-Network Approach To Interconnecting A Campus-Wide Internet</i> , <u>Proceedings of IEEE INFOCOM '85</u> (Cat. No. 85 CH 2153-5) IEEE Comput. Soc. Press, 1985, pp. 168-177.	
/	FC	Barrie C. Kirk, <i>Satellite Communications And Data Network Design</i> , <u>Cips Review</u> , Vol. 13, No. 2, March-April 1989, Canada, pp. 14-15.	
/	FD	Joseph A. Sciulli, <i>Transmission-Delay Effects On Satellite Communications</i> , <u>Telecommunications Techniques Corp.</u> , Rockville, MD, Vol. 12, No. 11, Nov. 1978, pp. 125-128.	
/	FE	Fouad A. Tobagi et al., <i>Packet Radio And Satellite Networks</i> , <u>IEEE Communications Magazine</u> , Vo. 22, No. 11, Nov. 1984, pp. 24-40, and 64.	
/	FF	Bijan Jabbari et al., <i>Performance Modeling And Simulation Of Inquiry-Response Computer Applications Using VSATs</i> , <u>IEEE International Conference on Communications ICC '90 Including Supercomm Technical Sessions, SUPERCOMM ICC '90 Conference Record</u> (Cat. No. 90 CH 2829-0, IEEE 1990, New York, NY, Vol. 2, pp. 376-80	
/	FG	D. Seret et al., <i>Satellite Channels For Distributed Data Systems</i> , <u>Computer Performance</u> , UK, Sept. 1984, Vol. 5, No. 3, pp. 153-158	
/	FH	Stephen Satchell, <i>Protocol Spoofing: Fun With The Telebit Trailblazer Plus 19,200-BPS Modem</i> , <u>InfoWorld</u> , Feb. 15, 1988, Vol. 10, No. 7, p. 48(1).	
/	FI	Yukuo Hayashida et al., <i>Throughput Analysis Of Tandem Go-Back-N ARQ Scheme</i> , <u>Transactions of the Institute of Electronics, Information and Communication Engineers B-1</u> , Japan, March 1989, Vol. J72B-1, No. 3, pp. 219-25 and- English Translation in <u>Electronics and Communications in Japan</u> , 1990, Part 1, Vol. 73, No. 4, pp. 11-18	
/	FJ	Yukuo Hayashida, <i>Delay Performances of Tandem Go-Back-N ARQ Scheme</i> , <u>Electronics and Communications in Japan</u> , 1990, Part 1, Vol. 73, No. 6, pp. 33-40.	
/	FK	Ulrich Quernheim et al., <i>Go-Back-N and Selective Repeat Error Control Techniques for Point-To-Multipoint Satellite Communications</i> , <u>Space Communications</u> , Netherlands, Nov. 1990, Vol. 7, Nos. 4-6, pp. 345-352.	
/	FL	Masaharu Komatsu, <i>Simple Go-Back-N ARQ Scheme for Satellite Channels With Double Acknowledgements</i> , <u>Electronics and Communications in Japan</u> , 1991, Part 1, Vol. 74, No. 5, pp. 55-61.	
/	FM	Dr. Christopher Landauer, <i>Intersystem Access Control Protocol Description</i> , <u>Milcom '85 - Military Communications Conference, Moston MA, October 20-23, 1985, Conference Record</u> , Vol. 2, (A86-32801 14-32) New York, <u>Institute of Electrical and Electronics Engineers, Inc.</u> , 1985, pp. 399-403.	
/	FN	Stuart Warren, <i>The Telebit Worldblazer Modem; It Transmits Where Others Fail</i> , <u>Teleconnect</u> , Sept. 1993, Vol. 11, No. 9, pp. 1-2	
/	FO	Mark Luczak, <i>Linking LANS With X.25 Gateways</i> , <u>Communications News</u> , May 1990, Vo. 27, No. 5, pp. 1-2	
/	FP	P. W. Gayek, <i>Data Link Switching: Present and Future</i> , <u>IBM Systems Journal</u> , Sept. 1995, Vol. 34, No. 3, pp. 1-15.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.



Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 5 of 5

Complete if Known

Application Number	09/493,338
Filing Date	January 28, 2000
First Named Inventor	Toporek, Jerome D. et al.
Art Unit	2665
Examiner Name	Justin M. Philpott
Attorney Docket Number	16625-001110

RECEIVED

JUN 14 2004

Technology Center 2600

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
/	FQ	Vinton G. Cerf, <i>Multivendor Connectivity And The Role Of Standards</i> , <u>Telecommunications</u> , Jan. 1989, Vol. 23, No. 1, pp. 1-4.	
/	FR	Steven Baker, <i>Joining The Internet Club</i> , <u>UNIX Review</u> , Oct. 1993, Vol. 11, No. 10, pp. 1-5.	
/	FS	SNA: <i>Micom Increases SNA Performance In Data/Voice Networks</i> , <u>EDGE</u> , on & about AT&T, Jan. 31, 1994, Vol. 9, No. 288, p. 1.	
/	FT	Karen Seo et al., <i>Distributed Testing And Measurement Across The Atlantic Packet Satellite Network (SATNET)</i> , <u>SATNET Measurement Taskforce</u> , pp. 235-246.	
/	FU	Dieter Baum, <i>Performance Analysis of a Satellite Communications Backchannel Architecture</i> , <u>Subdept. of Mathematics and Computer Science, University of Trier, Germany</u> , 1986, pp. 186-193.	
/	FV	Hari Balakrishnan et al., <i>A comparison of Mechanisms For Improving TCP Performance Over Wireless Links</i> , <u>1997 IEEE/ACM Transactions on Networking</u> , December 1997, Vol. 5, No. 6, pp. 756-769.	
/	FW	Hari Balakrishnan et al., <i>Improving Reliable Transport And Handoff Performance In Cellular Wireless Networks</i> , <u>Baltzer AG, Science Publishers</u> , Wireless Networks 1, 1995, pp. 469-481.	
/	FX	A. Udaya Shankar, <i>Verified Data Transfer Protocols With Variable Flow Control</i> , <u>ACM Transactions on Computer Systems</u> , Vol 7, No. 3, August 1989, pp. 281-316.	
/	FY	Edwin G. Brohm, <i>Sampling New Technologies Of Network Processors</i> , <u>Data Communications</u> , July 1984, pp. 143-147.	
/	FZ	Network Working Group, <i>Comment on RFC 1434 - Data Link Switching: Switch-to-Switch Protocol</i> , <u>Internet RFC/STD/FYI/BCP Archives</u> , www.faqs.org/rfcs/rfc1434.html , 1/12/2004, pp. 1-25.	

Examiner
SignatureDate
Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.